

AMENDMENTS TO THE ABSTRACT

Please amend the Abstract as listed below. A clean version of the Abstract is attached hereto as Appendix A.

ABSTRACT

~~Disclosed herein are a strain measurement module and strain measurement system. The A strain measurement system includes a tunable light generator, a coupler, a fiberoptic sensor unit, and an optical detector. The tunable light generator includes a Super Luminescent light emission Diode (SLD), and a tunable Fabry-Perrot (FP) filter cascaded to an output terminal of the SLD to convert light having a wideband spectrum into discrete optical signals. The coupler receives and distributes the optical signals output from the tunable light generator. The and passes them to a wavelength compensation means receives the optical signals from the tunable light generator through the coupler and device which detects wavelengths of an the optical signal output from the tunable light generator and passed through the FP filter signals.~~ The fiberoptic sensor unit receives the optical signals from the tunable light generator through the coupler and transmits a response signal corresponding to a variation of strain attributable to load. The optical detector detects the response signal output from the fiberoptic sensor through the coupler.

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ABSTRACT

A strain measurement system includes a tunable light generator, a coupler, a fiberoptic sensor unit, and an optical detector. The tunable light generator includes a Super Luminescent light emission Diode (SLD), and a tunable Fabry-Perrot (FP) filter cascaded to an output terminal of the SLD to convert light having a wideband spectrum into discrete optical signals. The coupler receives and distributes the optical signals and passes them to a wavelength compensation device which detects wavelengths of the optical signals. The fiberoptic sensor unit receives the optical signals from the tunable light generator through the coupler and transmits a response signal corresponding to a variation of strain attributable to load. The optical detector detects the response signal output from the fiberoptic sensor through the coupler.